

Roll No. ....

Examination May-2014

Total No. of Questions: 07]

BCA (Sem. – 3<sup>rd</sup>)

Total No. of Pages: 01]

Software Engineering

**SUBJECT CODE: BC – 303**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction to Candidates:**

- 1) Section – A is **Compulsory**.
- 2) Attempt any **Four** questions from Section – B.

**Section – A**

**Q 1)**

**(10 x 2 = 20)**

- a) List various Software Process Models.
- b) What is the Role of metrics?
- c) What are the Principles of Structured Analysis?
- d) Describe Data Dictionary.
- e) What are Objectives of Software Project Planning?
- f) What are Characteristics of data design?
- g) What is Problem Based estimation?
- h) What do you mean by White-Box testing?
- i) What is Software Equation?
- j) List various Testing Principles.

**Section – B**

**(4 x 10 = 40)**

**Q 2)** What do you mean by Prototyping? Discuss advantages of Prototype models over Waterfall models.

**Q 3)** What are various Estimation techniques? Explain COCOMO Model in detail.

**Q 4)** Write note on the following:

- a) DFD
- b) Entity Relationship Diagram

**Q 5)** What are Software Design Methodologies? Explain Architectural design with example.

**Q 6)** Write note on the following:

- a) Verification and Validation
- b) Fourth Generation Techniques

**Q 7)** What is testing? Explain various testing strategies.